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Om protein - protein search, using sw model.

Run on: April 27, 2006, 23:16:14 ; Search time 63.0045 Seconds

5066.651 Million cell updates/sec (without alignments)

Title: US-10-658-688-4

Perfect score: 3907

Sequence: 1 MKKKRKLPLMALSILVSS.....TSTNGIKKILIFSKKGYEIG 764

Scoring table: BLOSUM62

Gapext 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%, Maximum Match 100%

Listing First 45 summaries

Published Applications AA_Main!*

1: /cn2_6_ptodata/1/pubpa/us07_pubcomb.pep:*

2: /cn2_6_ptodata/1/pubpa/us08_pubcomb.pep:*

3: /cn2_6_ptodata/1/pubpa/us09_pubcomb.pep:*

4: /cn2_6_ptodata/1/pubpa/us10_pubcomb.pep:*

5: /cn2_6_ptodata/1/pubpa/us10_pubcomb.pep:*

6: /cn2_6_ptodata/1/pubpa/us11_pubcomb.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3907	100.0	764	4	US-10-442-502-6
2	3907	100.0	764	5	US-10-751-103-4
3	3904	99.9	764	4	US-10-475-516-30
4	3900	99.8	764	4	US-10-245-871-681
5	3900	99.8	764	4	US-10-253-286-681
6	3800	97.4	763	4	US-10-442-502-5
7	3800	97.3	764	3	US-09-747-521-4
8	3800	97.3	764	4	US-10-106-014-4
9	3800	97.3	764	4	US-10-105-695-4
10	3800	97.3	764	4	US-10-105-694-4
11	3774	96.6	735	4	US-10-410-647-0
12	3774	96.6	736	3	US-09-848-909-1
13	3774	96.6	736	3	US-09-848-909-2
14	3774	96.6	736	3	US-09-848-909-3
15	3774	96.6	736	3	US-09-848-909-4
16	3774	96.6	736	3	US-09-848-909-5
17	3774	96.6	736	3	US-09-848-909-6
18	3774	96.6	736	3	US-09-848-909-7
19	3774	96.6	736	3	US-09-848-909-8
20	3774	96.6	736	3	US-09-848-909-9
21	3774	96.6	736	3	US-09-848-909-10
22	3774	96.6	736	3	US-09-848-909-11
23	3774	96.6	736	3	US-09-848-909-12
24	3774	96.6	736	3	US-09-848-909-13
25	3774	96.6	736	3	US-09-848-909-14
26	3774	96.6	736	3	US-09-848-909-15
27	3774	96.6	736	3	US-09-848-909-16

ALIGNMENTS

RESULT 1
US-10-442-502-6

; Sequence 6, Application US/10442502

; Publication No. US20040009945A1

; GENERAL INFORMATION:

; APPLICANT: LEE, JOHN SCOTT

; APPLICANT: PUSHKO, PETER

; APPLICANT: PARKER, MICHAEL D.

; APPLICANT: SMITH, JONATHAN F.

; APPLICANT: WELKOS, SUSAN L.

; TITLE OF INVENTION: ANTHRAX VACCINES

; FILE REFERENCE: ARMY135B

; CURRENT APPLICATION NUMBER: US/10/442,502

; CURRENT FILING DATE: 2003-05-21

; PRIOR APPLICATION NUMBER: 09/350,729

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: 60/092,416

; NUMBER OF SEQ ID NOS: 18

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6

; LENGTH: 764

; TYPE: PRT

; ORGANISM: Bacillus anthracis

US-10-442-502-6

Query Match 100.0%; Score 3907; DB 4; Length 764;

Best Local Similarity 100.0%; Pred. No. 3.8e-28;

Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKRKVLPLMLAISTLVSSSTGNLLEVIAEQVKERNLINESESSQGLIGYYFSDLNFQAA 60

Db 1 MKRKVLPLMLAISTLVSSSTGNLLEVIAEQVKERNLINESESSQGLIGYYFSDLNFQAA 60

Qy 61 PMVYTSSTTGDLISTPSELENTISENOFOASALWSGFIVKKSDEBYTFTATSADHVTMV 120

Db 61 PMVYTSSTTGDLISTPSELENTISENOFOASALWSGFIVKKSDEBYTFTATSADHVTMV 120

Qy 121 DDOQEVIINKASNSNKIRLKEKGRLYQIKIQYQRENTPTEKGLDFKLWYTDSONKKEVLSNDL 180

Db 121 DDOQEVIINKASNSNKIRLKEKGRLYQIKIQYQRENTPTEKGLDFKLWYTDSONKKEVLSNDL 180

Qy 181 QLPPELKQGSSNSNKKRSSTSAGPTVPRDNDGIPDSLEYEGTYDVKNRTRFLSPWISNH 240

Db 181 QLPPELKQGSSNSNKKRSSTSAGPTVPRDNDGIPDSLEYEGTYDVKNRTRFLSPWISNH 240

Qy 241 EKGGLTKYKSSPERWSTATSDPSYDFKVGRIDQNVSPEARHPLVAAPIVHYDMENIL 300

Db 241 EKGGLTKYKSSPERWSTATSDPSYDFKVGRIDQNVSPEARHPLVAAPIVHYDMENIL 300

Qy	301 SKNEQDOSTNTDSERTISKNTTSRTHSEVHGNAEVHASFDIGGSVSAGFSNSNST 360	Db	241 EKKGLTKYKSSPEKMSTASDPSDFEKVTGRIDKNSPEARPLVAYPIVHDMENTIL 300
Db	301 SANEDQSTQNTDSERTISKNTTSRTHSEVHGNAEVHASFDIGGSVSAGFSNSNST 360	Qy	301 SKNEQDOSTNTDSERTISKNTTSRTHSEVHGNAEVHASFDIGGSVSAGFSNSNST 360
Qy	361 VAIDHSLSLAGERWAETMGLNTADTARLNANTRYNTGATPIVNLPTSLVLGNQTL 420	Db	301 SKNEQDOSTNTDSERTISKNTTSRTHSEVHGNAEVHASFDIGGSVSAGFSNSNST 360
Db	361 VAIDHSLSLAGERWAETMGLNTADTARLNANTRYNTGATPIVNLPTSLVLGNQTL 420	Qy	361 VAIDHSLSLAGERWAETMGLNTADTARLNANTRYNTGATPIVNLPTSLVLGNQTL 420
Qy	421 ATIKAKENQUSQIAPNPNYPSKLNAPIALNQDFFSSTPITMNYNQFLEBKTKQLRDL 480	Db	361 VAIDHSLSLAGERWAETMGLNTADTARLNANTRYNTGATPIVNLPTSLVLGNQTL 420
Db	421 ATIKAKENQUSQIAPNPNYPSKLNAPIALNQDFFSSTPITMNYNQFLEBKTKQLRDL 480	Qy	421 ATIKAKENQUSQIAPNPNYPSKLNAPIALNQDFFSSTPITMNYNQFLEBKTKQLRDL 480
Qy	481 TDQVGNIATYNFENGVRVDTGSNSWSEVLPQIQTARIIFNGDNLVERRIAAVNP 540	Db	421 ATIKAKENQUSQIAPNPNYPSKLNAPIALNQDFFSSTPITMNYNQFLEBKTKQLRDL 480
Db	481 TDQVGNIATYNFENGVRVDTGSNSWSEVLPQIQTARIIFNGDNLVERRIAAVNP 540	Qy	481 TDQVGNIATYNFENGVRVDTGSNSWSEVLPQIQTARIIFNGDNLVERRIAAVNP 540
Qy	541 DPLETTKPDMLKEALKIAFGNEPNLQYQGDITEFDFNDQOTSQNKQLAEINA 600	Db	481 TDQVGNIATYNFENGVRVDTGSNSWSEVLPQIQTARIIFNGDNLVERRIAAVNP 540
Db	541 DPLETTKPDMLKEALKIAFGNEPNLQYQGDITEFDFNDQOTSQNKQLAEINA 600	Qy	541 DPLETTKPDMLKEALKIAFGNEPNLQYQGDITEFDFNDQOTSQNKQLAEINA 600
Qy	601 TNITYVLDKTKLNKAMONLIRDKRHYDRNIAVGADESVKEAREVINSSTEGLLINI 660	Db	541 DPLETTKPDMLKEALKIAFGNEPNLQYQGDITEFDFNDQOTSQNKQLAEINA 600
Db	601 TNITYVLDKTKLNKAMONLIRDKRHYDRNIAVGADESVKEAREVINSSTEGLLINI 660	Qy	601 TNITYVLDKTKLNKAMONLIRDKRHYDRNIAVGADESVKEAREVINSSTEGLLINI 660
Qy	661 DKDIRKILSGYIVTEDETEGKIEVKINDMLNISLRODGTFIDFKTKNDKLPLIISN 720	Db	601 TNITYVLDKTKLNKAMONLIRDKRHYDRNIAVGADESVKEAREVINSSTEGLLINI 660
Db	661 DKDIRKILSGYIVTEDETEGKIEVKINDMLNISLRODGTFIDFKTKNDKLPLIISN 720	Qy	661 DKDIRKILSGYIVTEDETEGKIEVKINDMLNISLRODGTFIDFKTKNDKLPLIISN 720
Qy	721 PNYKVNVYAVTKENTINPSENGETSTNGIKKLLIFSKKGVEIG 764	Db	661 DKDIRKILSGYIVTEDETEGKIEVKINDMLNISLRODGTFIDFKTKNDKLPLIISN 720
Db	721 PNYKVNVYAVTKENTINPSENGETSTNGIKKLLIFSKKGVEIG 764	Qy	721 PNYKVNVYAVTKENTINPSENGETSTNGIKKLLIFSKKGVEIG 764
Db	721 PNYKVNVYAVTKENTINPSENGETSTNGIKKLLIFSKKGVEIG 764	Db	721 PNYKVNVYAVTKENTINPSENGETSTNGIKKLLIFSKKGVEIG 764
RESULT 2			
Sequence 4; Application US/10751103			
; Publication No. US200514529A1			
; GENERAL INFORMATION:			
; APPLICANT: Schmaljohn, Connie S.			
; APPLICANT: Fuller, James T.			
; TITLE OF INVENTION: Nucleic Acid Immunization			
; FILE REFERENCE: 03267-021			
; CURRENT APPLICATION NUMBER: US/10751103			
; CURRENT FILING DATE: 2004-01-05			
; NUMBER OF SEQ ID NOS: 9			
; SOFTWARE: FASTSEQ for Windows Version 4.0			
; SEQ ID NO: 4			
; LENGTH: 764			
; TYPE: PRT			
; ORGANISM: Bacillus anthracis			
; US-10-751-103-4			
Query Match Score 3907; DB 5; Length 764;			
Best Local Similarity 100.0%; Pred. No. 3 8e-228; Mismatches 0; Gaps 0;			
Matches 764; Conservative 0; Mismatches 0; Gaps 0;			
Qy	1 MKCRKVLIPMLALSTGGLSIPSSELENIPSENQYFQSAINGFIKVKSDETFATSADNHVTMW 120	Db	1 MKCRKVLIPMLALSTGGLSIPSSELENIPSENQYFQSAINGFIKVKSDETFATSADNHVTMW 120
Db	1 MKCRKVLIPMLALSTGGLSIPSSELENIPSENQYFQSAINGFIKVKSDETFATSADNHVTMW 120	Qy	1 MKCRKVLIPMLALSTGGLSIPSSELENIPSENQYFQSAINGFIKVKSDETFATSADNHVTMW 120
Qy	61 PMVVTSSSTTGGLSIPSSELENIPSENQYFQSAINGFIKVKSDETFATSADNHVTMW 120	Db	1 MKCRKVLIPMLALSTGGLSIPSSELENIPSENQYFQSAINGFIKVKSDETFATSADNHVTMW 120
Db	61 PMVVTSSSTTGGLSIPSSELENIPSENQYFQSAINGFIKVKSDETFATSADNHVTMW 120	Qy	61 PMVVTSSSTTGGLSIPSSELENIPSENQYFQSAINGFIKVKSDETFATSADNHVTMW 120
Qy	121 DDQBVINKASNSKIRLEKGRLYQIKQYORENPTEKGLDFKLYWTDSONKKEYTSSLN 180	Db	121 DDQBVINKASNSKIRLEKGRLYQIKQYORENPTEKGLDFKLYWTDSONKKEYTSSLN 180
Db	121 DDQBVINKASNSKIRLEKGRLYQIKQYORENPTEKGLDFKLYWTDSONKKEYTSSLN 180	Qy	121 DDQBVINKASNSKIRLEKGRLYQIKQYORENPTEKGLDFKLYWTDSONKKEYTSSLN 180
Qy	181 QLEBLKOKSSNSRKCRSTAGPVPDRDNGCIPSLLEVGTIVDVKXKFLSMWSIH 240	Db	181 QLEBLKOKSSNSRKCRSTAGPVPDRDNGCIPSLLEVGTIVDVKXKFLSMWSIH 240
Db	181 QLEBLKOKSSNSRKCRSTAGPVPDRDNGCIPSLLEVGTIVDVKXKFLSMWSIH 240	Qy	181 QLEBLKOKSSNSRKCRSTAGPVPDRDNGCIPSLLEVGTIVDVKXKFLSMWSIH 240
Qy	241 EKKGLTKYKSSPEKMSTASDPSDFEKVTGRIDKNSPEARPLVAYPIVHDMENTIL 300	Db	241 EKKGLTKYKSSPEKMSTASDPSDFEKVTGRIDKNSPEARPLVAYPIVHDMENTIL 300

Db	121 DDEQEVINKASNNSNKRLEKGRLYQIKIQQRENTPTEKGIDFKLYWTDSQNKEVISSDNL 180	Qy	61 PMVYTSSTGDLSPSSELENIPSENQYFOSAIVSGFIKVKKSDBYTATSDNHVTM 120
Qy	181 QLPELKQKSSNSRKRSTSAGPTVDRDNGIPDSLEVESYTVDKNKEKTFFLSPWISNH 240	Db	61 PMVYTSSTGDLSPSSELENIPSENQYFOSAIVSGFIKVKKSDBYTATSDNHVTM 120
Db	181 QLPELKQKSSNSRKRSTSAGPTVDRDNGIPDSLEVESYTVDKNKEKTFFLSPWISNH 240	Qy	121 DDQEYINKASNNSNKRLEKGRLYQIKIQQRENTPTEKGIDFKLYWTDSQNKEVISSDNL 180
Qy	241 EKKGLTKYKSSPEKMTSRPSSDEKVKTRIDKVNPSARHPLVAAAYPTVHDMENTIL 300	Db	121 DDQEYINKASNNSNKRLEKGRLYQIKIQQRENTPTEKGIDFKLYWTDSQNKEVISSDNL 180
Db	241 EKKGLTKYKSSPEKMTSRPSSDEKVKTRIDKVNPSARHPLVAAAYPTVHDMENTIL 300	Qy	181 QLPBKQKSSNSRKRSTSAGPTVDRDNGIPDSLEVESYTVDKNKEKTFFLSPWISNH 240
Qy	301 SKNEQSTQNTDSETRTSKNTTSRTHASFPDGGSUSAGFSNSNSST 360	Db	181 QLPBKQKSSNSRKRSTSAGPTVDRDNGIPDSLEVESYTVDKNKEKTFFLSPWISNH 240
Db	301 SKNEQSTQNTDSETRTSKNTTSRTHASFPDGGSUSAGFSNSNSST 360	Qy	241 EKKGLTKYKSSPEKMTSRPSSDEKVKTRIDKVNPSARHPLVAAAYPTVHDMENTIL 300
Qy	301 VAIDSLSLAGERTAETMGLINTADTARLNANIRYVNTGTTAPIYNVLPLTSLVJGNQL 420	Db	241 EKKGLTKYKSSPEKMTSRPSSDEKVKTRIDKVNPSARHPLVAAAYPTVHDMENTIL 300
Db	361 VAIDSLSLAGERTAETMGLINTADTARLNANIRYVNTGTTAPIYNVLPLTSLVJGNQL 420	Qy	301 SKNEQSTQNTDQSQTTSKNTTSRTHSEVHNAAEVASFFGGVSAGFSNSNSST 360
Qy	421 ATIKAENQOLSQIAPNNYTPSKNLAQPLALNAQDDFSSTPIITMYNOFLEKTIKOLRD 480	Db	301 SKNEQSTQNTDQSQTTSKNTTSRTHSEVHNAAEVASFFGGVSAGFSNSNSST 360
Db	421 ATIKAENQOLSQIAPNNYTPSKNLAQPLALNAQDDFSSTPIITMYNOFLEKTIKOLRD 480	Qy	361 VAIDHSLSLAGERTWAETMGLNTADTARLNANIRYVNTGTTAPIYNVLPLTSLVJGNQL 420
Qy	481 TDQYGNIATYNFENGVRVDTGSNWSEVLPQIQTETARIENGLDNIVERIAVNNES 540	Db	361 VAIDHSLSLAGERTWAETMGLNTADTARLNANIRYVNTGTTAPIYNVLPLTSLVJGNQL 420
Db	481 TDQYGNIATYNFENGVRVDTGSNWSEVLPQIQTETARIENGLDNIVERIAVNNES 540	Qy	421 ATIKAENQOLSQIAPNNYTPSKNLAQPLALNAQDDFSSTPIITMYNOFLEKTIKOLRD 480
Qy	541 DPLETTKPDMLKEALKIAFGFNEPNGNQYQGDITEDEFNFOOTSONIKNQALEINA 600	Db	421 ATIKAENQOLSQIAPNNYTPSKNLAQPLALNAQDDFSSTPIITMYNOFLEKTIKOLRD 480
Db	541 DPLETTKPDMLKEALKIAFGFNEPNGNQYQGDITEDEFNFOOTSONIKNQALEINA 600	Qy	481 TDQYGNIATYNFENGVRVDTGSNWSEVLPQIQTETARIENGLDNIVERIAVNNES 540
Qy	601 TNIYTVDLKIKNAKMNLIRDKFHYDRNNIAVGADESVKAEHREVINSSTEGLLINI 660	Db	481 TDQYGNIATYNFENGVRVDTGSNWSEVLPQIQTETARIENGLDNIVERIAVNNES 540
Db	601 TNIYTVDLKIKNAKMNLIRDKFHYDRNNIAVGADESVKAEHREVINSSTEGLLINI 660	Qy	541 DPLETTKPDMLKEALKIAFGFNEPNGNQYQGDITEDEFNFOOTSONIKNQALEINA 600
Qy	661 DKDIRKILSGYIIVEDTEGLKEYINDRDMLNLISSLRDGTKEFDPKYNDKLPLYISN 720	Db	541 DPLETTKPDMLKEALKIAFGFNEPNGNQYQGDITEDEFNFOOTSONIKNQALEINA 600
Db	661 DKDIRKILSGYIIVEDTEGLKEYINDRDMLNLISSLRDGTKEFDPKYNDKLPLYISN 720	Qy	601 TNIYTVDLKIKNAKMNLIRDKFHYDRNNIAVGADESVKAEHREVINSSTEGLLINI 660
Qy	721 PNYKVNVYAVTKENTIINPSENGDTSTNGIKKILIFSKGYEIG 764	Db	601 DKDIRKILSGYIIVEDTEGLKEYINDRDMLNLISSLRDGTKEFDPKYNDKLPLYISN 720
Db	721 PNYKVNVYAVTKENTIINPSENGDTSTNGIKKILIFSKGYEIG 764	Qy	661 DKDIRKILSGYIIVEDTEGLKEYINDRDMLNLISSLRDGTKEFDPKYNDKLPLYISN 720
RESULT 4			
Qy	US-10-245-871-681 Sequence 681, Application US/10245871	Db	721 PNYKVNVYAVTKENTIINPSENGDTSTNGIKKILIFSKGYEIG 764
Db	GENERAL INFORMATION:	Db	721 PNYKVNVYAVTKENTIINPSENGDTSTNGIKKILIFSKGYEIG 764
Qy	APPLICANT: HUMPHREYS, ROBERT		
Db	APPLICANT: XU, MINZHEN		
RESULT 5			
Qy	TITLE OF INVENTION: Ii-KEY/ANTIGENIC EPITOPE HYBRID PEPTIDE VACCINES		US-10-233-286-681
Db	FILE REFERENCE: REH-2013		; Sequence 681, Application US/10253286
	CURRENT APPLICATION NUMBER: US/10-245, 871		; Publication No. US2004005881A1
	CURRENT FILING DATE: 2003-01-09		; GENERAL INFORMATION:
	PRIOR APPLICATION NUMBER: 10/197,000		; APPLICANT: HUMPHREYS, ROBERT
	PRIOR FILING DATE: 2002-07-17		; APPLICANT: XU, MINZHEN
	PRIOR APPLICATION NUMBER: 10/197,000		; TITLE OF INVENTION: Ii-KEY/ANTIGENIC EPITOPE HYBRID PEPTIDE VACCINES
	PRIOR FILING DATE: 1999-09-14		; CURRENT APPLICATION NUMBER: US/10-253,286
	NUMBER OF SEQ ID NOS: 905		; CURRENT FILING DATE: 2003-01-13
	SOFTWARE: PatentIn Ver. 2.1		; PRIOR APPLICATION NUMBER: 10/197,000
	SEQ ID NO: 681		; PRIOR FILING DATE: 2002-07-17
	LENGTH: 764		; PRIOR APPLICATION NUMBER: 09/396, 813
	TYPE: PRT		; FILE REFERENCE: REH-2015
	ORGANISM: Bacillus anthracis		; NUMBER OF SEQ ID NOS: 905
	US-10-245-871-681		; PRIORITY FILING DATE: 1999-09-14
Qy	Query Match 1: Best local Similarity 99.8%; Score 3900; DB 4; Length 764; Matches 762; Conservative 1; Mismatches 0; Gaps 0;		; SEQ ID NO: 681
Db	1 MKCRKVLLMLSTLVSSTGNLEVIOLEVQENRLNEMESSSQGLGYFSDLNQFA 60		; LENGTH: 764
	1 MKCRKVLLMLSTLVSSTGNLEVIOLEVQENRLNEMESSSQGLGYFSDLNQFA 60		; TYPE: PRT
	1 MKCRKVLLMLSTLVSSTGNLEVIOLEVQENRLNEMESSSQGLGYFSDLNQFA 60		; ORGANISM: Bacillus anthracis
	US-10-253-286-681		; US-10-253-286-681

APPLICANT: Mateczun, Alfred
 TITLE OF INVENTION: Methods for Protection Against Lethal Infection with Bacillus Anthracis
 FILE REFERENCE: 22727/04079
 CURRENT APPLICATION NUMBER: US/09/747,521
 CURRENT FILING DATE: 2000-12-21
 NUMBER OF SEQ ID NOS: 8
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 4
 LENGTH: 764
 TYPE: PRT
 ORGANISM: Bacillus anthracis
 US-09-747-521-4

Query Match 97.3%; Score 3800; DB 3; Length 764;
 Best Local Similarity 97.0%; Pred. No. 1.2e-221;
 Matches 746; Mismatches 16; Indels 0; Gaps 0;

Db 1 MKKRKVLIPLMALSTLIVSNTNLLEVYQAEVQENNLNESESSSGCLGGYFSDLNFOA 60
 1 MKKRKVLIPLMALSTLIVSNTNLLEVYQAEVQENNLNESESSSGCLGGYFSDLNFOA 60

Qy 61 PMVVTSSTTGDLISPSSELENTPSENOYFQSAIWSGP1KVKSDTETATSADNHTMWV 120
 61 PMVVTSSTTGDLISPSSELENTPSENOYFQSAIWSGP1KVKSDTETATSADNHTMWV 120

Db 121 DDQEVINAKASNNSNKIRLEKGRLYQIKIQYQRENPTKGDFKLWYNTDSQNKEVISSDNL 180
 121 DDQEVINAKASNNSNKIRLEKGRLYQIKIQYQRENPTKGDFKLWYNTDSQNKEVISSDNL 180

Qy 121 DDQEVINAKASNNSNKIRLEKGRLYQIKIQYQRENPTKGDFKLWYNTDSQNKEVISSDNL 180
 121 DDQEVINAKASNNSNKIRLEKGRLYQIKIQYQRENPTKGDFKLWYNTDSQNKEVISSDNL 180

Db 181 QLPKKQKSSNSRKRSTASGPVPDRNDGLPDSLVEGETVDVNKRTRPLSPMISNH 240
 181 QLPKKQKSSNSRKRSTASGPVPDRNDGLPDSLVEGETVDVNKRTRPLSPMISNH 240

Qy 181 QLPKKQKSSNSRKRSTASGPVPDRNDGLPDSLVEGETVDVNKRTRPLSPMISNH 240
 181 QLPKKQKSSNSRKRSTASGPVPDRNDGLPDSLVEGETVDVNKRTRPLSPMISNH 240

Db 241 EKKGLTKYKSSPEKWTASDPYSDFERKVGRIDKNVSPEARHPLVAYAPIVHDMENTIL 300
 241 EKKGLTKYKSSPEKWTASDPYSDFERKVGRIDKNVSPEARHPLVAYAPIVHDMENTIL 300

Db 301 SKNEDOSTQNTDESETPISKNTSTSRTHTSEVHGNAEVHASSFDIGGSVAGFSNSNSST 360
 301 SKNEDOSTQNTDESETPISKNTSTSRTHTSEVHGNAEVHASSFDIGGSVAGFSNSNSST 360

Qy 301 SKNEDOSTQNTDESETPISKNTSTSRTHTSEVHGNAEVHASSFDIGGSVAGFSNSNSST 360
 301 SKNEDOSTQNTDESETPISKNTSTSRTHTSEVHGNAEVHASSFDIGGSVAGFSNSNSST 360

Db 361 VAIDHSLSLAGERTWAETMGINTADTARLNANITYNTGTAPIINVNLPTSLVLGKNOTL 420
 361 VAIDHSLSLAGERTWAETMGINTADTARLNANITYNTGTAPIINVNLPTSLVLGKNOTL 420

Qy 361 VAIDHSLSLAGERTWAETMGINTADTARLNANITYNTGTAPIINVNLPTSLVLGKNOTL 420
 361 VAIDHSLSLAGERTWAETMGINTADTARLNANITYNTGTAPIINVNLPTSLVLGKNOTL 420

Db 421 ATIKAKENQOLSOILAPNNYYPSKLNAPIALNAQDDESSTPITMNQNQFLEKTOLRLD 480
 421 ATIKAKENQOLSOILAPNNYYPSKLNAPIALNAQDDESSTPITMNQNQFLEKTOLRLD 480

Qy 421 ATIKAKENQOLSOILAPNNYYPSKLNAPIALNAQDDESSTPITMNQNQFLEKTOLRLD 480
 421 ATIKAKENQOLSOILAPNNYYPSKLNAPIALNAQDDESSTPITMNQNQFLEKTOLRLD 480

Db 481 TDQYGNIAATNFENGVRVDTGSNWSEVLPOIQUETTARIIFNGKDLNLVERRIAVNP 540
 481 TDQYGNIAATNFENGVRVDTGSNWSEVLPOIQUETTARIIFNGKDLNLVERRIAVNP 540

Qy 481 TDQYGNIAATNFENGVRVDTGSNWSEVLPOIQUETTARIIFNGKDLNLVERRIAVNP 540
 481 TDQYGNIAATNFENGVRVDTGSNWSEVLPOIQUETTARIIFNGKDLNLVERRIAVNP 540

Db 541 DPLETTKPDMLKEALKIAFGNEPNGNLQYQGDITEDEFNDDQTSONIKNQLAELNA 600
 541 DPLETTKPDMLKEALKIAFGNEPNGNLQYQGDITEDEFNDDQTSONIKNQLAELNA 600

Qy 601 TNIYTLDKIKLNAAKNNILIRDKRFYDRNNTAVGADESYYKEAREVINSSTEGLLINI 660
 601 TNIYTLDKIKLNAAKNNILIRDKRFYDRNNTAVGADESYYKEAREVINSSTEGLLINI 660

Db 601 TNIYTLDKIKLNAAKNNILIRDKRFYDRNNTAVGADESYYKEAREVINSSTEGLLINI 660
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Qy 661 DKDIRKILSGYIVEIEDTEGKEVINDYDMNLISSLRQDKTFIDFKNDKPLYISN 720
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 661 DKDIRKILSGYIVEIEDTEGKEVINDYDMNLISSLRQDKTFIDFKNDKPLYISN 720

Qy 721 PNYKVVAVTKENTINTPSENGDTSTNGIKKILFSKKGYBIG 764
 721 PNYKVVAVTKENTINTPSENGDTSTNGIKKILFSKKGYBIG 764

Db 721 PNYKVVAVTKENTINTPSENGDTSTNGIKKILFSKKGYBIG 764
 721 PNYKVVAVTKENTINTPSENGDTSTNGIKKILFSKKGYBIG 764

RESULT 8
 US-10-106-014-4
 ; Sequence 4, Application US/10106014

; Publication No. US20020142002A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Mateczun, Alfred J.
 ; TITLE OF INVENTION: Methods for Protection Against Lethal Infection with Bacillus Anthracis
 ; FILE REFERENCE: 22727/04114
 ; CURRENT APPLICATION NUMBER: US/10/106,014
 ; CURRENT FILING DATE: 2002-03-25
 ; PRIOR APPLICATION NUMBER: US 09/747,521
 ; NUMBER OF SEQ ID NOS: 8
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 4
 ; LENGTH: 764
 ; TYPE: PRT
 ; ORGANISM: Bacillus anthracis
 ; US-10-106-014-4

Query Match 97.3%; Score 3800; DB 4; Length 764;
 Best Local Similarity 97.6%; Pred. No. 1.2e-221;
 Matches 746; Conservative 2; Mismatches 16; Indels 0; Gaps 0;

Qy 1 MKKRKVLIPLMALSTLIVSNTNLLEVYQAEVQENNLNESESSSGCLGGYFSDLNFOA 60
 1 MKKRKVLIPLMALSTLIVSNTNLLEVYQAEVQENNLNESESSSGCLGGYFSDLNFOA 60

Db 61 PMVVTSSTTGDLISPSSELENTPSENOYFQSAIWSGP1KVKSDTETATSADNHTMWV 120
 61 PMVVTSSTTGDLISPSSELENTPSENOYFQSAIWSGP1KVKSDTETATSADNHTMWV 120

Qy 61 PMVVTSSTTGDLISPSSELENTPSENOYFQSAIWSGP1KVKSDTETATSADNHTMWV 120
 61 PMVVTSSTTGDLISPSSELENTPSENOYFQSAIWSGP1KVKSDTETATSADNHTMWV 120

Db 61 PMVVTSSTTGDLISPSSELENTPSENOYFQSAIWSGP1KVKSDTETATSADNHTMWV 120
 61 PMVVTSSTTGDLISPSSELENTPSENOYFQSAIWSGP1KVKSDTETATSADNHTMWV 120

Qy 121 DDQEVINAKASNNSNKIRLEKGRLYQIKIQYQRENPTKGDFKLWYNTDSQNKEVISSDNL 180
 121 DDQEVINAKASNNSNKIRLEKGRLYQIKIQYQRENPTKGDFKLWYNTDSQNKEVISSDNL 180

Db 121 DDQEVINAKASNNSNKIRLEKGRLYQIKIQYQRENPTKGDFKLWYNTDSQNKEVISSDNL 180
 121 DDQEVINAKASNNSNKIRLEKGRLYQIKIQYQRENPTKGDFKLWYNTDSQNKEVISSDNL 180

Qy 121 DDQEVINAKASNNSNKIRLEKGRLYQIKIQYQRENPTKGDFKLWYNTDSQNKEVISSDNL 180
 121 DDQEVINAKASNNSNKIRLEKGRLYQIKIQYQRENPTKGDFKLWYNTDSQNKEVISSDNL 180

Db 181 QLPKKQKSSNSRKRSTASGPVPDRNDGLPDSLVEGETVDVNKRTRPLSPMISNH 240
 181 QLPKKQKSSNSRKRSTASGPVPDRNDGLPDSLVEGETVDVNKRTRPLSPMISNH 240

Qy 181 QLPKKQKSSNSRKRSTASGPVPDRNDGLPDSLVEGETVDVNKRTRPLSPMISNH 240
 181 QLPKKQKSSNSRKRSTASGPVPDRNDGLPDSLVEGETVDVNKRTRPLSPMISNH 240

Db 241 EKKGLTKYKSSPEKWTASDPYSDFERKVGRIDKNVSPEARHPLVAYAPIVHDMENTIL 300
 241 EKKGLTKYKSSPEKWTASDPYSDFERKVGRIDKNVSPEARHPLVAYAPIVHDMENTIL 300

Db 301 SKNEDOSTQNTDESETPISKNTSTSRTHTSEVHGNAEVHASSFDIGGSVAGFSNSNSST 360
 301 SKNEDOSTQNTDESETPISKNTSTSRTHTSEVHGNAEVHASSFDIGGSVAGFSNSNSST 360

Qy 301 SKNEDOSTQNTDESETPISKNTSTSRTHTSEVHGNAEVHASSFDIGGSVAGFSNSNSST 360
 301 SKNEDOSTQNTDESETPISKNTSTSRTHTSEVHGNAEVHASSFDIGGSVAGFSNSNSST 360

Db 361 VAIDHSLSLAGERTWAETMGINTADTARLNANITYNTGTAPIINVNLPTSLVLGKNOTL 420
 361 VAIDHSLSLAGERTWAETMGINTADTARLNANITYNTGTAPIINVNLPTSLVLGKNOTL 420

Qy 361 VAIDHSLSLAGERTWAETMGINTADTARLNANITYNTGTAPIINVNLPTSLVLGKNOTL 420
 361 VAIDHSLSLAGERTWAETMGINTADTARLNANITYNTGTAPIINVNLPTSLVLGKNOTL 420

Db 421 ATIKAKENQOLSOILAPNNYYPSKLNAPIALNAQDDESSTPITMNQNQFLEKTOLRLD 480
 421 ATIKAKENQOLSOILAPNNYYPSKLNAPIALNAQDDESSTPITMNQNQFLEKTOLRLD 480

Qy 421 ATIKAKENQOLSOILAPNNYYPSKLNAPIALNAQDDESSTPITMNQNQFLEKTOLRLD 480
 421 ATIKAKENQOLSOILAPNNYYPSKLNAPIALNAQDDESSTPITMNQNQFLEKTOLRLD 480

Db 481 TDQYGNIAATNFENGVRVDTGSNWSEVLPOIQUETTARIIFNGKDLNLVERRIAVNP 540
 481 TDQYGNIAATNFENGVRVDTGSNWSEVLPOIQUETTARIIFNGKDLNLVERRIAVNP 540

Qy 481 TDQYGNIAATNFENGVRVDTGSNWSEVLPOIQUETTARIIFNGKDLNLVERRIAVNP 540
 481 TDQYGNIAATNFENGVRVDTGSNWSEVLPOIQUETTARIIFNGKDLNLVERRIAVNP 540

Db 541 DPLETTKPDMLKEALKIAFGNEPNGNLQYQGDITEDEFNDDQTSONIKNQLAELNA 600
 541 DPLETTKPDMLKEALKIAFGNEPNGNLQYQGDITEDEFNDDQTSONIKNQLAELNA 600

Qy 601 TNIYTLDKIKLNAAKNNILIRDKRFYDRNNTAVGADESYYKEAREVINSSTEGLLINI 660
 601 TNIYTLDKIKLNAAKNNILIRDKRFYDRNNTAVGADESYYKEAREVINSSTEGLLINI 660

Db 601 TNIYTLDKIKLNAAKNNILIRDKRFYDRNNTAVGADESYYKEAREVINSSTEGLLINI 660
 601 TNIYTLDKIKLNAAKNNILIRDKRFYDRNNTAVGADESYYKEAREVINSSTEGLLINI 660

Qy 661 DKDIRKILSGYIVEIEDTEGKEVINDYDMNLISSLRQDKTFIDFKNDKPLYISN 720
 661 DKDIRKILSGYIVEIEDTEGKEVINDYDMNLISSLRQDKTFIDFKNDKPLYISN 720

Db 661 DKDIRKILSGYIVEIEDTEGKEVINDYDMNLISSLRQDKTFIDFKNDKPLYISN 720
 661 DKDIRKILSGYIVEIEDTEGKEVINDYDMNLISSLRQDKTFIDFKNDKPLYISN 720

Qy 721 PNYKVVAVTKENTINTPSENGDTSTNGIKKILFSKKGYBIG 764
 721 PNYKVVAVTKENTINTPSENGDTSTNGIKKILFSKKGYBIG 764

Db 721 PNYKVVAVTKENTINTPSENGDTSTNGIKKILFSKKGYBIG 764
 721 PNYKVVAVTKENTINTPSENGDTSTNGIKKILFSKKGYBIG 764

RESULT 9
US-10-105-695-4
; Sequence 4, Application US/10105695
; Publication No. US0020197272A1
; GENERAL INFORMATION:
; APPLICANT: Galloway, Darrel R.
; TITLE OF INVENTION: Methods For Protection Against Lethal Infection with Bacillus Anthracis
; CURRENT APPLICATION NUMBER: US 10/105,695
; CURRENT FILING DATE: 2002-03-25
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 4
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Bacillus anthracis
US-10-105-695-4

Query Match 97.3%; Score 3800; DB 4; Length 764;
Best Local Similarity 97.4%; Pred. No. 1.2e-221;
Matches 746; Conservative 2; Mismatches 16; Indels 0; Gaps 0;

Qy	1	MCKRKVLPMLSTLIVSSTGNEEVQAEKQENRLLNESSSSGGLGGYSSDIAFQA 60	Db	661	DKDTRKILSGTGYIILEDPTGLKEVINDRYDMLNSSLRDGKTFIDFKKYNDKLPLLYISN 720
Qy	1	MCKRKVLPMLSTLIVSSTGNEEVQAEKQENRLLNESSSSGGLGGYSSDIAFQA 60	Qy	721	PVKVNYAVTKENTINTNSENGDTSTNGIKKLLIFSKKGYIG 764
Qy	61	PMVVTSSITGDSIISSELENPSENOYFOAATSGFGIKVKSDEYTPATSADNHYTMYV 120	Db	721	PVKVNYAVTKENTINTNSENGDTSTNGIKKLLIFSKKGYIG 764
Qy	61	PMVVTSSITGDSIISSELENPSENOYFOAATSGFGIKVKSDEYTPATSADNHYTMYV 120	Qy	721	PVKVNYAVTKENTINTNSENGDTSTNGIKKLLIFSKKGYIG 764
Qy	121	DDQEVINKAANSNKIRLEKGRYQIKIOXORENPTEKGLDFKLYWTDSONKEVISSDNL 180	Db	1	MCKRKVLPMLSTLIVSSTGNEEVQAEKQENRLLNESSSSGGLGGYSSDIAFQA 60
Db	121	DDQEVINKAANSNKIRLEKGRYQIKIOXORENPTEKGLDFKLYWTDSONKEVISSDNL 180	Db	1	MCKRKVLPMLSTLIVSSTGNEEVQAEKQENRLLNESSSSGGLGGYSSDIAFQA 60
Qy	181	QLEBLKOKSSNSRKRSAGTVPDRDGIPLSLEVEGTVDYKNTKTELSPWINTH 240	Qy	61	PMVVTSSITGDSIISSELENPSENOYFOAATSGFGIKVKSDEYTPATSADNHYTMYV 120
Db	181	QLEBLKOKSSNSRKRSAGTVPDRDGIPLSLEVEGTVDYKNTKTELSPWINTH 240	Db	61	PMVVTSSITGDSIISSELENPSENOYFOAATSGFGIKVKSDEYTPATSADNHYTMYV 120
Qy	241	EKGGLTKYKSSPEKWSTASDPSDEFEKUTGRKNTNSPEARPLVAAPIVHDMDENII 300	Qy	121	DDQEVINKAANSNKIRLEKGRYQIKIOXORENPTEKGLDFKLYWTDSONKEVITSDNL 180
Db	241	EKGGLTKYKSSPEKWSTASDPSDEFEKUTGRKNTNSPEARPLVAAPIVHDMDENII 300	Db	121	DDQEVINKAANSNKIRLEKGRYQIKIOXORENPTEKGLDFKLYWTDSONKEVITSDNL 180
Qy	301	SKNEDOSTONTDSSTRTRISKNTSTRHTSEYVHNAEVHASPEFIDGSVSAGFNSNST 360	Qy	181	QLEBLKOKSSNSRKRSAGTVPDRDGIPLSLEVEGTVDYKNTKTELSPWINTH 240
Db	301	SKNEDOSTONTDSSTRTRISKNTSTRHTSEYVHNAEVHASPEFIDGSVSAGFNSNST 360	Db	181	QLEBLKOKSSNSRKRSAGTVPDRDGIPLSLEVEGTVDYKNTKTELSPWINTH 240
Qy	421	ATTAKENOLSQLAPNNYPSKNLAPTAQNQQDFSSPITNNQFLEKTQRLD 480	Qy	241	EKGGLTKYKSSPEKWSTASDPSDEFEKUTGRKNTNSPEARPLVAAPIVHDMDENII 300
Db	421	ATTAKENOLSQLAPNNYPSKNLAPTAQNQQDFSSPITNNQFLEKTQRLD 480	Db	241	EKGGLTKYKSSPEKWSTASDPSDEFEKUTGRKNTNSPEARPLVAAPIVHDMDENII 300
Qy	481	TDQVGNATYNFENGRVTDGSNWSEVLPOIQTETARIINGKDLNVERRAVNP 540	Qy	301	SKNEDOSTONTDSSTRTRISKNTSTRHTSEYVHNAEVHASPEFIDGSVSAGFNSNST 360
Db	481	TDQVGNATYNFENGRVTDGSNWSEVLPOIQTETARIINGKDLNVERRAVNP 540	Db	301	SKNEDOSTONTDSSTRTRISKNTSTRHTSEYVHNAEVHASPEFIDGSVSAGFNSNST 360
Qy	541	DPLETTKEDMTLKEALKIAFGFNEPNGLQYQGDITEEDENFDQTSQNIKQLAELNA 600	Db	421	ATTAKENOLSQLAPNNYPSKNLAPTAQNQQDFSSPITNNQFLEKTQRLD 480
Db	541	DPLETTKEDMTLKEALKIAFGFNEPNGLQYQGDITEEDENFDQTSQNIKQLAELNA 600	Qy	361	VAIDHSLSLAGERTWAETMGINTADTARLNANIRYNTGTAPIVYVLPITSLVUGQNL 420
Qy	481	TDQVGNATYNFENGRVTDGSNWSEVLPOIQTETARIINGKDLNVERRAVNP 540	Db	361	VAIDHSLSLAGERTWAETMGINTADTARLNANIRYNTGTAPIVYVLPITSLVUGQNL 420
Db	481	TDQVGNATYNFENGRVTDGSNWSEVLPOIQTETARIINGKDLNVERRAVNP 540	Qy	421	ATTAKENOLSQLAPNNYPSKNLAPTAQNQQDFSSPITNNQFLEKTQRLD 480
Qy	541	DPLETTKEDMTLKEALKIAFGFNEPNGLQYQGDITEEDENFDQTSQNIKQLAELNA 600	Db	481	TDQVGNATYNFENGRVTDGSNWSEVLPOIQTETARIINGKDLNVERRAVNP 540
Db	541	DPLETTKEDMTLKEALKIAFGFNEPNGLQYQGDITEEDENFDQTSQNIKQLAELNA 600	Qy	541	DPLETTKEDMTLKEALKIAFGFNEPNGLQYQGDITEEDENFDQTSQNIKQLAELNA 600
Qy	601	TNITVLDKILKLNARNILLRDRFHDRNIAVADESVKAIREVINSSTEGILLNI 660	Db	541	DPLETTKEDMTLKEALKIAFGFNEPNGLQYQGDITEEDENFDQTSQNIKQLAELNA 600
Db	601	TNITVLDKILKLNARNILLRDRFHDRNIAVADESVKAIREVINSSTEGILLNI 660	Qy	601	TNITVLDKILKLNARNILLRDRFHDRNIAVADESVKAIREVINSSTEGILLNI 660
Qy	661	DKDIRKILSGTIVEIEDPTGLKEVINDRYMLNISSRQDTKTFDFKCYNDLPLLYISN 720	Qy	601	TNITVLDKILKLNARNILLRDRFHDRNIAVADESVKAIREVINSSTEGILLNI 660

RESULT 11
 US-10-410-647-30
 ; Sequence 30, Application US/10410647
 ; Publication No. US20030235818A1
 ; GENERAL INFORMATION:
 ; APPLICANT: PLEXUS VACCINE, INC.
 ; APPLICANT: Katritch, Vsevolod
 ; APPLICANT: Bordin, Andrew
 ; APPLICANT: Deans, Robert
 ; APPLICANT: Sumner, Mary
 ; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES, AND METHOD OF IDENTIFYING SAME
 ; FILE REFERENCE: PLEX1110-1
 ; CURRENT APPLICATION NUMBER: US/10/410, 647
 ; CURRENT FILING DATE: 2003-04-08
 ; PRIOR APPLICATION NUMBER: US 60/373, 668
 ; PRIOR FILING DATE: 2002-04-17
 ; PRIOR APPLICATION NUMBER: US 60/371, 256
 ; PRIOR FILING DATE: 2002-04-08
 ; PRIOR APPLICATION NUMBER: US 60/371, 250
 ; PRIOR FILING DATE: 2002-04-08
 ; NUMBER OF SEQ ID NOS: 46
 ; SOFTWARE: Patentin version 3.1
 ; SEQ ID NO: 30
 ; LENGTH: 735
 ; TYPE: PRT
 ; ORGANISM: Bacillus anthracis
 US-10-410-647-30

Query Match 96.5%; Score 3774; DB 4; Length 735;
 Best Local Similarity 100.0%; Pred. No. 4.1e-220;
 Matches 735; Conservative 0; Mismatches 0; Gaps 0;

Db 601 LNAQDDFSSTPITMNYNQFLELEKTKQLRLDQYQGNIATYNFNGRVRVDTGSNNSEV 480
 Db 421 LNAQDDFSSTPITMNYNQFLELEKTKQLRLDQYQGNIATYNFNGRVRVDTGSNNSEV 480
 Qy 510 LPQICBETTARIIFGKDNLVERRAAVNPSPDPLETTKEDEMLKELAKIAFGFNPNGNL 569
 Db 481 LPQICBETTARIIFGKDNLVERRAAVNPSPDPLETTKEDEMLKELAKIAFGFNPNGNL 540
 Qy 570 QYQGDITEDFNPQQTSQNIKQLAELNATNTYVLDKIKLNKMNLLIRDKFHYDR 629
 Db 541 QYQGDITEDFNPQQTSQNIKQLAELNATNTYVLDKIKLNKMNLLIRDKFHYDR 600
 Qy 630 NNIAGADESUVKAHREVINSSTEGLLNIDKDRKILSGYIVIEDTEGLKEYVINDRY 689
 Db 601 NNIAGADESUVKAHREVINSSTEGLLNIDKDRKILSGYIVIEDTEGLKEYVINDRY 660
 Qy 690 DMLNSSSLRQDGKTFIDFKYNDKLPLYISNPNTKVNTYAVTKENTTINPSENGITSTNG 749
 Db 661 DMLNSSSLRQDGKTFIDFKYNDKLPLYISNPNTKVNTYAVTKENTTINPSENGITSTNG 720
 Qy 750 IKKCIIFSKKGYEIG 764
 Db 721 IKKCIIFSKKGYEIG 735

RESULT 12
 US-09-848-909-1
 ; Sequence 1, Application US/09848909
 ; Publication No. US20020039588A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Collier, R. John
 ; APPLICANT: Sellman, Brett R.
 ; TITLE OF INVENTION: Compounds and Methods for the Treatment
 ; of Bacterial Infection
 ; FILE REFERENCE: 00742/060002
 ; CURRENT APPLICATION NUMBER: US/09/848, 909
 ; CURRENT FILING DATE: 2001-05-04
 ; PRIOR APPLICATION NUMBER: US 60/201, 800
 ; PRIOR FILING DATE: 2000-04-04
 ; NUMBER OF SEQ ID NOS: 35
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 1
 ; LENGTH: 736
 ; TYPE: PRT
 ; ORGANISM: Bacillus anthracis
 US-09-848-909-1

Query Match 96.6%; Score 3774; DB 3; Length 736;
 Best Local Similarity 100.0%; Pred. No. 4.1e-220;
 Matches 735; Conservative 0; Mismatches 0; Gaps 0;

Db 1 EVKQENRLLNESESSSGQGLIGGXYSPLDNFOAPMVYTSSTGDLSPSSSELENIPSENQYF 89
 Db 1 EVKQENRLLNESESSSGQGLIGGXYSPLDNFOAPMVYTSSTGDLSPSSSELENIPSENQYF 60
 Qy 90 QSAIWSGFYKVKSDBYFTATSADNHVMTYDDQEYINKASNSNKIRLKGRLYQIKIQY 149
 Db 61 QSAIWSGFYKVKSDBYFTATSADNHVMTYDDQEYINKASNSNKIRLKGRLYQIKIQY 120
 Qy 150 QRENPEKGDFKLWYTDSONKKEVISSDNQLPKQSSNSRKRSSTSAGPTVPRDRN 209
 Db 121 QRENPEKGDFKLWYTDSONKKEVISSDNQLPKQSSNSRKRSSTSAGPTVPRDRN 180
 Qy 210 DGIPDSLEVEGYTVDKYKRNKRTFLSPWISNTHKGKLTKYKSSPEKWSTASDPYSPFEKVT 269
 Db 181 DGIPDSLEVEGYTVDKYKRNKRTFLSPWISNTHKGKLTKYKSSPEKWSTASDPYSPFEKVT 240
 Qy 270 GRIDKQVSPEARHPLVAAPIVHDMENTILLSKNEQDQSTONTDSERTTSRNTSRHT 329
 Db 241 GRIDKQVSPEARHPLVAAPIVHDMENTILLSKNEQDQSTONTDSERTTSRNTSRHT 300
 Qy 330 SEVHGNAEVHASFPFDIGGSVSAGFSNSNSTVAIDHSLSLAGERTWAETGLNTADTARL 389
 Db 301 SEVHGNAEVHASFPFDIGGSVSAGFSNSNSTVAIDHSLSLAGERTWAETGLNTADTARL 360
 Qy 390 NANIRYNTGTAPIYVNLPTSLVLGKNOTLATIKAENOLSOIAPNNTYPSKNLAPLA 449
 Db 361 NANIRYNTGTAPIYVNLPTSLVLGKNOTLATIKAENOLSOIAPNNTYPSKNLAPLA 420
 Qy 450 LNAQDDFSSTPITMNYNQFLELEKTKQLRLDQYQGNIATYNFNGRVRVDTGSNNSEV 509

Db 150 QRENTEKGDFKLWYTDSONKKEVISSDNQLPKQSSNSRKRSSTSAGPTVPRDRN 209
 Db 121 QRENTEKGDFKLWYTDSONKKEVISSDNQLPKQSSNSRKRSSTSAGPTVPRDRN 180
 Db 210 DGIPDSLEVEGYTVDKYKRNKRTFLSPWISNTHKGKLTKYKSSPEKWSTASDPYSPFEKVT 269
 Db 181 DGIPDSLEVEGYTVDKYKRNKRTFLSPWISNTHKGKLTKYKSSPEKWSTASDPYSPFEKVT 240
 Qy 270 GRIDKQVSPEARHPLVAAPIVHDMENTILLSKNEQDQSTONTDSERTTSRNTSRHT 329
 Db 241 GRIDKQVSPEARHPLVAAPIVHDMENTILLSKNEQDQSTONTDSERTTSRNTSRHT 300
 Qy 330 SEVHGNAEVHASFPFDIGGSVSAGFSNSNSTVAIDHSLSLAGERTWAETGLNTADTARL 389
 Db 301 SEVHGNAEVHASFPFDIGGSVSAGFSNSNSTVAIDHSLSLAGERTWAETGLNTADTARL 360

Qy	390	NNIIRYVNTGATAPIVNLPITSLVIGKNOTLATIKAKENQSOILAPNNYPSKLNAPIA	449	Db	241	GRIDKNSPPEARHPLVAAYPIVHDMENTILSKNEDSTONTDSRTTSKNTTSRHT	300
Db	361	NNIIRYVNTGATAPIVNLPITSLVIGKNOTLATIKAKENQSOILAPNNYPSKLNAPIA	420	Qy	330	SEVGNNAVEASFPDGGSVSAGFNSNSNSTVAIDHSLLAGERTWAETMGLINTADTARL	389
Qy	450	LNAQDDFSTTPTMNQNFTELEKTKQLRLTDQVGNATINENGRVTDGSNMSEV	509	Db	301	SEVGNNAVEASFPDGGSVSAGFNSNSNSTVAIDHSLLAGERTWAETMGLINTADTARL	360
Db	421	LNAQDDFSTTPTMNQNFTELEKTKQLRLTDQVGNATINENGRVTDGSNMSEV	480	Qy	390	NANIRYVNTGATAPIVNLPITSLVIGKNOTLATIKAKENQSOILAPNNYPSKLNAPIA	449
Qy	510	LPOIQETTARIIFNGKDLNLNIVERRIAANPDPLETTKPDMTLKEALKTARGNEPNGL	569	Db	361	NANIRYVNTGATAPIVNLPITSLVIGKNOTLATIKAKENQSOILAPNNYPSKLNAPIA	420
Db	481	LPOIQETTARIIFNGKDLNLNIVERRIAANPDPLETTKPDMTLKEALKTARGNEPNGL	540	Qy	450	LNAQDDFSSTPIMNQFLFLETKTKQLRLTDQVGNATINENGRVTDGSNMSEV	509
Qy	570	QYQCKDTEFDENFOOTSQNIQNOLAEALNATNTYVLDKMLNARONTLIRDRPHDR	629	Db	421	LNAQDDFSSTPIMNQFLFLETKTKQLRLTDQVGNATINENGRVTDGSNMSEV	480
Db	541	QYQCKDTEFDENFOOTSQNIQNOLAEALNATNTYVLDKMLNARONTLIRDRPHDR	600	Qy	510	LPOIQETTARIIFNGKDLNLNIVERRIAANPDPLETTKPDMTLKEALKTARGNEPNGL	569
Qy	630	NNIAVGADESYKEAHREVINSSTEGLLNIDDKRKLISGYIVEITEDTECHKEYINDRY	689	Db	481	LPOIQETTARIIFNGKDLNLNIVERRIAANPDPLETTKPDMTLKEALKTARGNEPNGL	540
Db	601	NNIAVGADESYKEAHREVINSSTEGLLNIDDKRKLISGYIVEITEDTECHKEYINDRY	660	Qy	570	QYQCKDTEFDENFOOTSQNIQNOLAEALNATNTYVLDKMLNARONTLIRDRPHDR	629
Qy	690	DMINISSLRDGKTFIDPKKNDKLPLYISNPNKVNVAVTKENTTINPSENGETSTNG	749	Db	541	QYQCKDTEFDENFOOTSQNIQNOLAEALNATNTYVLDKMLNARONTLIRDRPHDR	600
Db	661	DMINISSLRDGKTFIDPKKNDKLPLYISNPNKVNVAVTKENTTINPSENGETSTNG	720	Qy	630	NNIAVGADESYKEAHREVINSSTEGLLNIDDKRKLISGYIVEITEDTECHKEYINDRY	689
Qy	750	IKKLIFSKKGYEIG	764	Db	601	NNIAVGADESYKEAHREVINSSTEGLLNIDDKRKLISGYIVEITEDTECHKEYINDRY	660
Db	721	IKKLIFSKKGYEIG	735	Qy	690	DMLAISSEQRDGKTFIDPKKNDKLPLYISNPNKVNVAVTKENTTINPSENGETSTNG	749
RESULT 14							
US-09-848-909-2							
Sequence 2, Application US/09848909							
Publication No. US2000039588A1							
GENERAL INFORMATION:							
APPLICANT: Collier, R. John							
TITLE OF INVENTION: Compounds and Methods for the Treatment							
TITLE REFERENCE: 00742/060002							
CURRENT APPLICATION NUMBER: US/09/848,909							
CURRENT FILING DATE: 2001-05-04							
PRIORITY FILING DATE: 2000-04-04							
NUMBER OF SEQ ID NOs: 35							
SEQ ID NO: 2							
SOFTWARE: FastSEQ for Windows Version 4.0							
LENGTH: 736							
TYPE: PRT							
ORGANISM: Bacillus anthracis							
US-09-848-909-2							
Query Match Score 96.6%; Best Local Similarity 100.0%; Matches 735; Conservatve 0; Mismatches 0; Indels 0; Gaps 0;							
Query Match Score 96.6%; Best Local Similarity 100.0%; Matches 735; Conservatve 0; Mismatches 0; Indels 0; Gaps 0;							
Qy	30	EVKENRNLNESESSQGLGYPSDEYTATSDQVINKASNSKIRLEKGRYQIKIQY	89	Qy	30	EVKENRNLNESESSQGLGYPSDEYTATSDQVINKASNSKIRLEKGRYQIKIQY	89
Db	1	EVKENRNLNESESSQGLGYPSDEYTATSDQVINKASNSKIRLEKGRYQIKIQY	60	Db	1	EVKENRNLNESESSQGLGYPSDEYTATSDQVINKASNSKIRLEKGRYQIKIQY	60
Qy	90	QSAWSPGIKTKKSDEYTATSDQVINKASNSKIRLEKGRYQIKIQY	149	Qy	90	QSAWSPGIKTKKSDEYTATSDQVINKASNSKIRLEKGRYQIKIQY	149
Db	61	QSAWSPGIKTKKSDEYTATSDQVINKASNSKIRLEKGRYQIKIQY	120	Db	61	QSAWSPGIKTKKSDEYTATSDQVINKASNSKIRLEKGRYQIKIQY	120
Qy	150	QRENPTEKGLDFKLYTMDSONKEVVISDNQLPDKRSNSKCRSTSAGPTVPRDN	209	Qy	150	QRENPTEKGLDFKLYTMDSONKEVVISDNQLPDKRSNSKCRSTSAGPTVPRDN	209
Db	121	QRENPTEKGLDFKLYTMDSONKEVVISDNQLPDKRSNSKCRSTSAGPTVPRDN	180	Db	121	QRENPTEKGLDFKLYTMDSONKEVVISDNQLPDKRSNSKCRSTSAGPTVPRDN	180
Qy	210	DGIPDSLEVEGYTVDYKNERTRTSPMISNTHEKGGLTYKSSPDKWTSADPYSDFEKVY	269	Qy	150	QRENPTEKGLDFKLYTMDSONKEVVISDNQLPDKRSNSKCRSTSAGPTVPRDN	209
Db	181	DGIPDSLEVEGYTVDYKNERTRTSPMISNTHEKGGLTYKSSPDKWTSADPYSDFEKVY	240	Db	121	QRENPTEKGLDFKLYTMDSONKEVVISDNQLPDKRSNSKCRSTSAGPTVPRDN	180
Qy	270	GRIDKNSPPEARHPLVAAYPIVHDMENTILSKNEDSTONTDSRTTSRHT	329	Qy	270	GRIDKNSPPEARHPLVAAYPIVHDMENTILSKNEDSTONTDSRTTSRHT	329

Qy	210	DGIPDSLEVEGYTVVKNRKTFPLSPWISNHEKKGLTKYKSSPEKNTASDPSDFEKV	269	
Db	181	DGIPDSLEVEGYTVVKNRKTFPLSPWISNHEKKGLTKYKSSPEKNTASDPSDFEKV	240	
Qy	270	GRIDKNVSPEARHPLVAAPIVHDVMENIILSKNEQSTQNTDSETRTISQNTTSRHT	329	
Db	241	GRIDKNVSPEARHPLVAAPIVHDVMENIILSKNEQSTQNTDSETRTISQNTTSRHT	300	
Qy	330	SEVHGNAEVHASFFDGGSVSAGFSNSNSNTVAIDHSLSLAGERTWAETMGLNTADTARL	389	
Db	301	SEVHGNAEVHASFFDGGSVSAGFSNSNSNTVAIDHSLSLAGERTWAETMGLNTADTARL	360	
Qy	390	NANIRYNTGTAPIVNLPTSLVLGKNOTLATIKAKENQSQILAPNNYPSKNLAPIA	449	
Db	361	NANIRYNTGTAPIVNLPTSLVLGKNOTLATIKAKENQSQILAPNNYPSKNLAPIA	420	
Qy	450	LNAQDDFSSTPITMNYNQFLBLKTQKLRLDTDQVYGNIAATNFENGVRVDTGSNWSE	509	
Db	421	LNAQDDFSSTPITMNYNQFLBLKTQKLRLDTDQVYGNIAATNFENGVRVDTGSNWSE	480	
Qy	510	LPOIQTTRAITFNGKDLNLYVERRIAAVNPSPPLETTKPDMLKEALKIAFGFNEPNGLN	569	
Db	481	LPOIQTTRAITFNGKDLNLYVERRIAAVNPSPPLETTKPDMLKEALKIAFGFNEPNGLN	540	
Qy	570	OYQGDITEFDENPDQTSQNKQLAELNATNITYVLDKLNAAKNNILRDKRHYDR	629	
Db	541	OYQGDITEFDENPDQTSQNKQLAELNATNITYVLDKLNAAKNNILRDKRHYDR	600	
Qy	630	NNIAYGADESYYKEAHEREVINSSTEGLLNIDKDIRKILSGYIVELEDTEGKKEVINDRY	689	
Db	601	NNIAYGADESYYKEAHEREVINSSTEGLLNIDKDIRKILSGYIVELEDTEGKKEVINDRY	660	
Qy	690	DMLNISSLRQDGKTFIDPKYNDKLPYISNPYKVNYYATKENTINPSENQDTSTNG	749	
Db	661	DMLNISSLRQDGKTFIDPKYNDKLPYISNPYKVNYYATKENTINPSENQDTSTNG	720	
Qy	750	IKKILIFSKGYEIG 764		
Db	721	IKKILIFSKGYEIG 735		
	RESULT 15			
Qy	US-09-844-909-4	Sequence 4; Application US/098448909		
		Publication No. US20020039588A1		
		GENERAL INFORMATION:		
		APPLICANT: Collier, R. John		
		APPLICANT: Sellman, Brett R.		
		TITLE OF INVENTION: Compounds and Methods for the Treatment		
		of and Prevention of Bacterial Infection		
		FILE REFERENCE: 00742/06/0002		
		CURRENT APPLICATION NUMBER: US/09/848,909		
		PRIOR APPLICATION NUMBER: US 2001-05-04		
		PRIOR FILING DATE: 2000-04-04		
		NUMBER OF SEQ ID NOS: 35		
		SOFTWARE: FastSEQ for Windows Version 4.0		
		SEQ ID NO 4		
		LENGTH: 736		
		TYPE: PRT		
		ORGANISM: Bacillus anthracis		
	US-09-848-909-4			
		Query Match Score 3774; DB -3; Length 736;		
		Best Local Similarity 96.3%; Pred. No. 4_1e-220; Mismatches 0; Indels 0; Gaps 0;		
		Matches 735; Conservative 0; Gapopen 0; Gapclose 0; Gapwidth 0;		
Qy	30	EVKQENRLLNESESSQQGLGYYFSDLNPAQMVTTSSTGDLSPSSELNIPSENQF	89	
Db	1	EVKQENRLLNESESSQQGLGYYFSDLNPAQMVTTSSTGDLSPSSELNIPSENQF	60	
Qy	90	QSAWGSFIVKKSDBYFTATSADHVTMWDQEVINKASNNSKTRLEKGRLQYQIKIQY	149	

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